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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,045	09/30/2003	Yaron Ilan	Enz-63(CIP) 5995	
28171 7590 09/11/2007 ENZO BIOCHEM, INC. 527 MADISON AVENUE (9TH FLOOR)			EXAMINER	
			SKELDING, ZACHARY S	
NEW YORK, NY 10022			ART UNIT	PAPER NUMBER
			1644	
:			MAIL DATE	DELIVERY MODE
			09/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•		Application No.	Applicant(s)			
		10/676,045	ILAN ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Zachary Skelding	1644			
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address			
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES OF THE MAILING DA	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be the apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 15 Ma	ay 2007.				
,—	This action is FINAL. 2b) 🔀 This action is non-final.					
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E.	x paπe Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	ion of Claims					
5) [6) [7) [Claim(s) 1-3,5-13,15-20,23-46,50-63,67-72,83-4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>See Continuation Sheet</u> are subject to	n from consideration.				
Applicati	ion Papers					
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner	pted or b) objected to by the lawing(s) be held in abeyance. See on is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
12) [] a)[Acknowledgment is made of a claim for foreign part All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau see the attached detailed Office action for a list of	have been received. have been received in Applicati ty documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen		4) 🗍 Interview Summer.	(DTO 412)			
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ate			
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P	atent Application			

Continuation of Disposition of Claims: Claims subject to restriction and/or election requirement are 1-3, 5-13, 15-20, 23-46, 50-63, 67-72, 83-126 and 143-164.

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DETAILED ACTION

1. Applicant's amendment and election, with traverse, filed May 15, 2007 is acknowledged.

Claims 4, 14, 21, 22, 47-49, 64, 65, 73-82 and 127-142 have been canceled.

Claims 143-164 have been added.

Claims 1-3, 5-13, 15-20, 23-46, 50-63, 67-72, 83-126 and 143-164 are pending.

2. Applicant's election of Group II, with traverse, and further election of the following species, with traverse is acknowledged: as the immune related or immune-mediated disorder to be treated and "allogenic antigens obtained from donors suffering from said immune-related or immune-mediated disorders" as the *one specific set of culture conditions* for the ex vivo education of NKT cells.

Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Moreover, it should be noted that while applicant has identified the species that is elected consonant with this requirement, applicant has NOT included a listing of all claims readable thereon, including any claims subsequently added, as required by paragraph 14 on page 6 of the restriction requirement mailed June 21, 2006.

Nevertheless, upon further consideration the previous restriction requirement of June 21, 2006 is hereby VACATED. A new Restriction Requirement is set forth below. The examiner apologizes to applicant for any inconvenience in this matter.

Restriction Requirement

- 3. Restriction to one of the following inventions is required under 35 U.S.C. § 121:
 - I. Claims 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 99, 101, 102, 104 and 112, drawn to a method of treatment using **NKT cells** to **promote inflammation**, classified in Class 424, subclass 93.1.
 - II. Claims 6, 7, 8, 9, 10, 11, 12, 13, 15, 19, 24, 32, 146, 147, 148, 149, 150 and 151, drawn to a method of treatment using **NKT cells** as an <u>anti-inflammatory</u>, classified in Class 424, subclass 93.21.
 - III. Claims 16, 17, 18, 20, 23, 96, 97, 98, 100 and 103, drawn to a method of treatment using oral tolerization to elicit up or down regulation of the immune system, classified in Class 424, subclass 184.1.

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V. Claims 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62 and 63, drawn to ex-vivo educated NKT cells capable of acting as anti-inflammatory agents, classified in Class 424, subclass 93.7.

VI. Claims 66, 67, 68, 69, 70, 71, 72, 155, 156, 157, 158, drawn to a therapeutic composition comprising an antibody that recognizes NKT cells, classified in Class 424, subclass 130.1.

VIII. Claims 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 152, 153 and 154, drawn to ex-vivo educated NKT cells capable of acting as pro-inflammatory agents, classified in Class 424, subclass 93.71.

IX. Claim 5, drawn to a method of treatment involving depletion of **NKT cells** as an <u>anti-inflammatory</u>, classified in Class 424, subclass 140.1.

X. Claim 85, drawn to a method of treatment involving depletion of **NKT cells** to **promote** inflammation, classified in Class 424, subclass 154.1.

Linking claims

4. Claims 1, 83, 84 and 143 link Groups I and X.

The restriction requirement between Groups I and X is subject to the nonallowance of the linking claim(s), claims 1, 83 and 143.

Claims 2 and 144 link Groups I, II, IX and X.

The restriction requirement between Groups I, II, IX and X is subject to the nonallowance of the linking claim(s), claims 2 and 144.

Claims 3 and 145 link Groups II and IX.

The restriction requirement between Groups II and IX is subject to the nonallowance of the linking claim(s), claims 3 and 145.

Claims 25-31 link Groups I, II, III, IX and X.

The restriction requirement between Groups I, II, III, IX and X is subject to the nonallowance of the linking claim(s), claims 25-31.

Claims 105-111 link Groups I, III and X.

The restriction requirement between Groups I, III and X is subject to the nonallowance of the linking claim(s), claims 105-111.

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Claims 159-164 link Groups VI and VIII.

The restriction requirement between Groups VI and VIII is subject to the nonallowance of the linking claim(s), claims 159-164.

Upon the indication of allowability of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise requiring all the limitations of the allowable linking claim(s) will be rejoined and fully examined for patentability in accordance with 37 CFR 1.104 Claims that require all the limitations of an allowable linking claim will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

Applicant(s) are advised that if any claim(s) including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. In re Ziegler, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

- 5. Groups I-III, IX and X are different methods, which differ with respect to one or more ingredients, method steps, and/or endpoints; therefore, each method is patentably distinct. Further, the distinct ingredients, method steps, and/or endpoints require separate and distinct searches. As such, it would be burdensome to search these inventions together.
- 6. Groups V, VI and VIII are different products. The products are patentably distinct because their structures, physicochemical properties and/or mode of action are different, and they do not share a common structure that is disclosed to be essential for common utility. Furthermore, they require non-coextensive searches in the scientific literature. Therefore, each product is patentably distinct, and searching of these Inventions would impose an undue burden.
- 7. Groups V/VI and II/IX, respectively, are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, inflammatory immune diseases can be treated with agents other than NKT cells or depleting anti-NKT antibodies, for example, with corticosteroids.

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• wherein the "cytokine or adhesion molecule" is chosen from, for example as recited in claims 11 and 12, "IL4" OR "integrins".

These molecules are patentably distinct because their structures, and/or physiochemical properties are different, and/or they do not share a common structure that is disclosed to be essential for common utility. Further, examination of these species would require different searches in the scientific literature. As such, it would be burdensome to search these species together.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is required under 35 USC 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held allowable.

12. Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

13. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

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(a) the inventions have acquired a separate status in the art in view of their different classification;

(b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;

(c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);

(d) the prior art applicable to one invention would not likely be applicable to another invention;

(e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

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Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

14. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

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In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

- 15. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- 16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachary Skelding whose telephone number is 571-272-9033. The examiner can normally be reached on Monday Friday 9:00 a.m. 5:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571-272-0841. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Zachary Skelding, Ph.D. Patent Examiner August 24, 2007

MICHAIL BELYAVSKYI, PH.D. PATENT EXAMINER

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08/31/07